Simulation Design for Example 3MRA Exit Level Analysis for 7 Chemicals

Exit Level Description	Scen	Scenario		
Scenario ID	1	2		
Protection Levels				
% Population Protected	99%	95%		
% Sites Protected	95%	95%		
Protective?	More	Less		
Human				
Distance (m)	500	2000		
Cancer Risk	10^{-6}	10 ⁻⁵		
Hazard Risk	0.1	1		
Exposure Pathway ¹	Sum Ingestion	Sum Ingestion & Inhalation		
Receptor Group	All Re	All Receptors		
Cohort Group	All C	All Cohorts		
Ecological				
Ring Distance (m)	2000	2000		
Hazard Risk	1	1		
Roll-up by Habitat Group ²	Terrestrial, Aq	Terrestrial, Aquatic, Wetland		
Simulation Design				
Sources/Chemicals/Cws	5/	5/7/5		
Sites/sources	4:	419		
# National Realizations	30	369		
# Modeling System Runs ³	5.41	5,411,385		

Scenario Identification for Joint Human and Ecological Risk Assessment

² To evaluate ecological roll-ups jointly with human concerns, scenarios are further broken down by habitat group.

Scenario 1				
Scenario 1a	Human	Terrestrial		
Scenario 1b	Human	Aquatic		
Scenario 1c	Human	Wetland		
Scenario 2				
Scenario 2a	Human	Terrestrial		
Scenario 2b	Human	Aquatic		
Scenario 2c	Human	Wetland		

¹When "Sum of Inhalation & Ingestion" is specified, special cases for human risk are considered when assigning data "By Receptor", "By Cohort", and "By Distance". See Note #6e to better understand how the ELP2Vis deals with Carc. and Non-Carc. flags, and "additivity" of risk, which together represent chemical specific considerations in how data is handled.

3MRA Simulation Batching Sequence Using SuperMUSE and 3MRA Ver. 1.x

³ To conduct the example experiment, simulations of 20 to 30 national realizations were launched in several batches. Each national realization was aggregated in a separate ELP1 database, with database name concatenated from "ParSUITest", and values for

"BatchID" and "Realization#".

BatchID	Initial ^a	# Realizations	# Realizations
	Seed	Issued	Successful
A	11031	30	29 ^b
В	12289	30	30
C	3239	20	20
D	19189	30	30
E	28925	30	30
F	28458	30	30
G	30834	25	25
Н	467	30	30
I	13107	30	30
J	27771	30	25°
K	4459	30	30
L	7883	30	30
M	1463	30	30
Total # National Realizations >>		369	

Initial seeds (500) were randomly selected in Excel.

Final R30 ELP1 database was corrupted on server.

Final J20 to J24 ELP1 databases failed checksum.